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Quality Assurance and Quality Control by Approved Methods

Analysis of Water Sample

Client Glen Innes Severn Council,
Glen Innes Sewage Treatment Works *Report* 29th August 2022
Water Sample collected 23rd August 2022 Analysis complete 19th August 2022
Sample collected by Emily Leach Samples received chilled - 23rd August 2022

RESULTS - Glen Innes 23rd August 2022

mg L^{-1} = part per million)

Parameter			**Licence Limit (90th%ile)**	***Units***	***Method***
Ammonia NH_3-N	1.53		2	mg L^{-1}	APHA 4500-NH_3 C
Biochemical Oxygen Demand (5 days)	13.5		10	mg L^{-1}	APHA 5210 B
Elect. conductivity (EC)	572			uS cm^{-1}	APHA 2510 B
Faecal Coliforms	<1		200	cfu/ 100 mL	Membrane Filter APHA 9222 D
NO_2 and NO_3 -N	1.38			mg L^{-1}	APHA 4110 B
Oil & Grease	<2		2	mg L^{-1}	USEPA 1664
pH	7.03		6.5-8.5	pH units	APHA 4500-H^+ B
Soluble Reactive P (SRP)	0.006			mg L^{-1}	APHA 4110 B
Total phosphorus	0.06		0.3	mg L^{-1}	APHA 4500 P E
TKN - N	3.3			mg L^{-1}	APHA 4500-N_{org} C
TN	4.7		10	mg L^{-1}	TKN + NO_2+NO_3
Total suspended solids TSS	8		15	mg L^{-1}	APHA 2540 D

0<0.x = measured but reading below detection level

Reference: APHA (2005) *Standard Methods for the Examination of Water and Wastewater*. 21st Edition 2005.
Comments. Please note the Lower detection limit under USEPA 1664 is 2 mg/L for Oil & Grease

Glen Innes Weir - elemental analysis

Glen Innes - 23A	Na	K	Mg	Ca	SAR	Hardness	Sulphur	TDS	Alkalinity	Chloride
Glen Innes - 23AUG22	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L
	50.4	9.4	23.6	28.8	1.7	169	15.6	383	120	95